

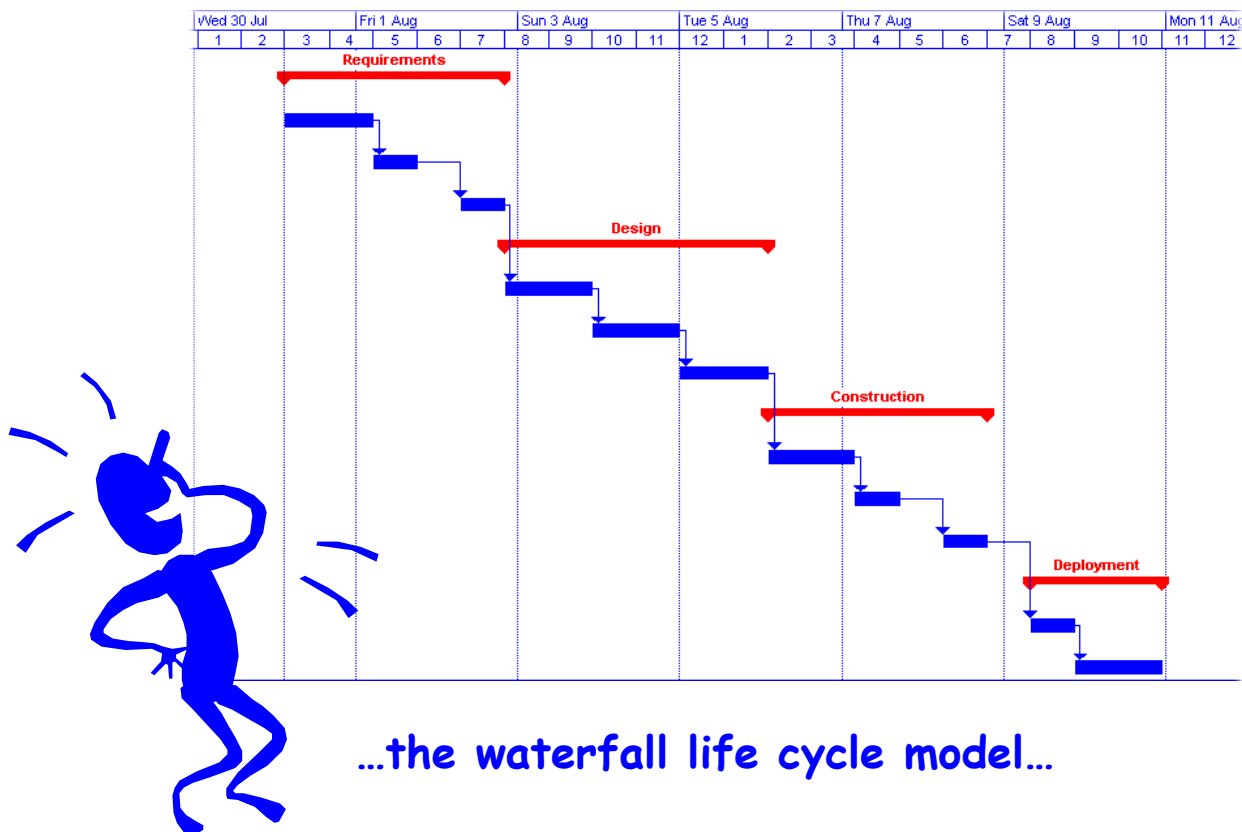
The Triangular Life Cycle Model

Phil Robinson



1

But first..

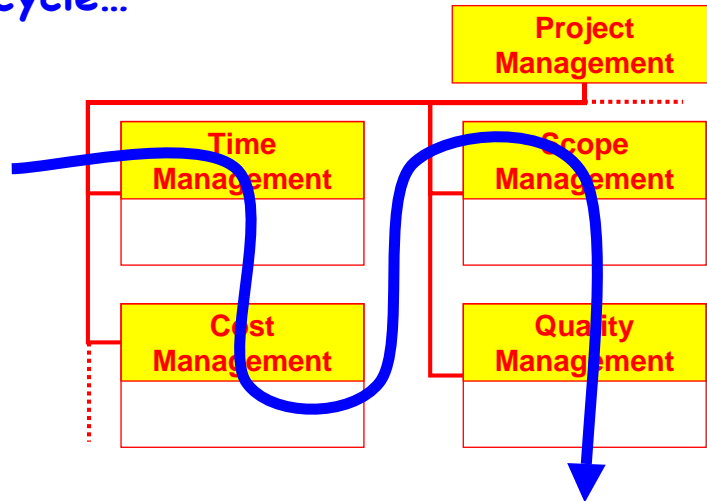


2

...the waterfall life cycle model is based on...

Initial > Intermediate > Final

...the project life cycle...



... and project management priorities

As we all know, there are many problems with the waterfall life cycle model

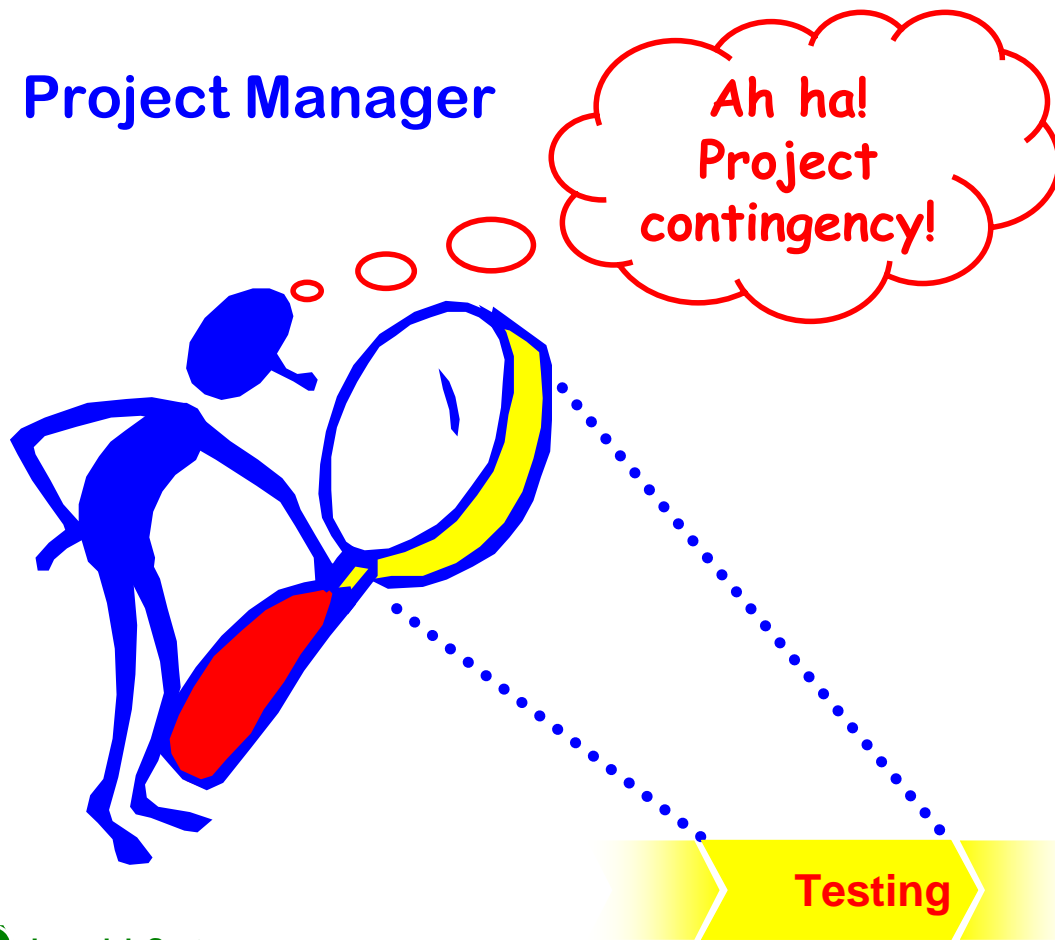
Project Manager



Project Team



Project Manager



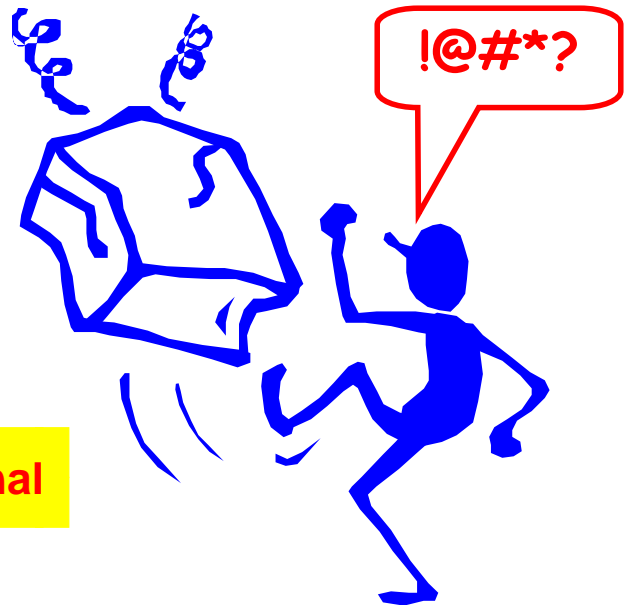
Project Team



User

But lets not forget it was the user who:

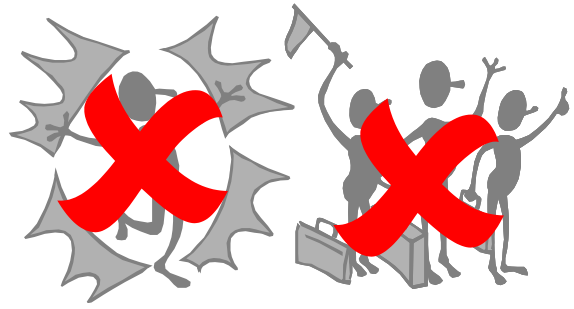
- ✓ Dictated the schedule
- ✓ Allocated the budget
- ✓ Defined (and then expanded) the scope



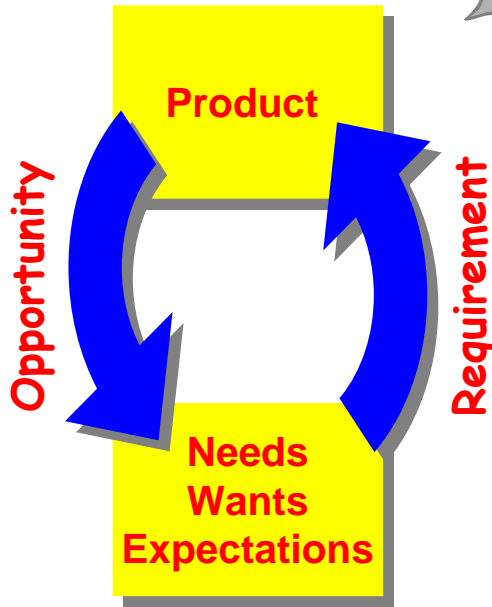
The Ingredients For a Better Model!

- ✓ Product vs. project life cycle
- ✓ Quality vs. project priorities
- ✓ Views of quality vs. Gant charts

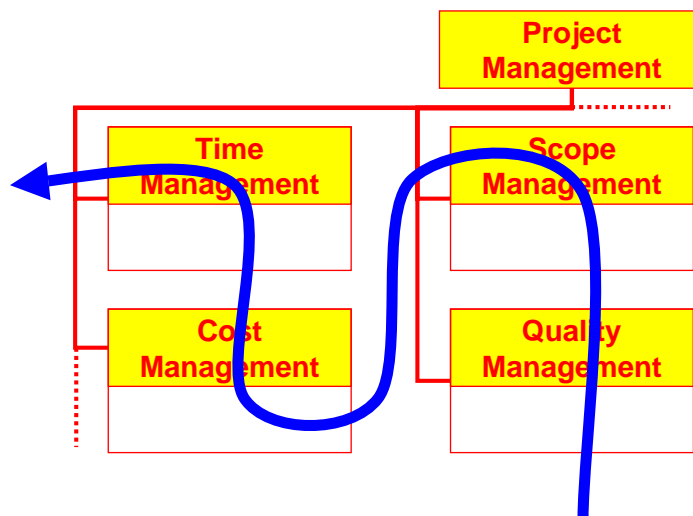
The Product Life Cycle



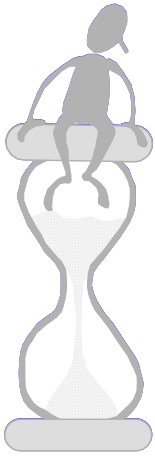
...never ends!



Quality Management Priorities



Views of Quality



Excellence
Quality can be recognised but not easily defined



Value view
What the user is prepared to pay for quality

User's view
Ability to satisfy user's needs

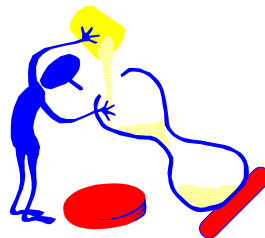


Manufacturer's view
Conforms to the specification



Product view
Measurable aspect of the product

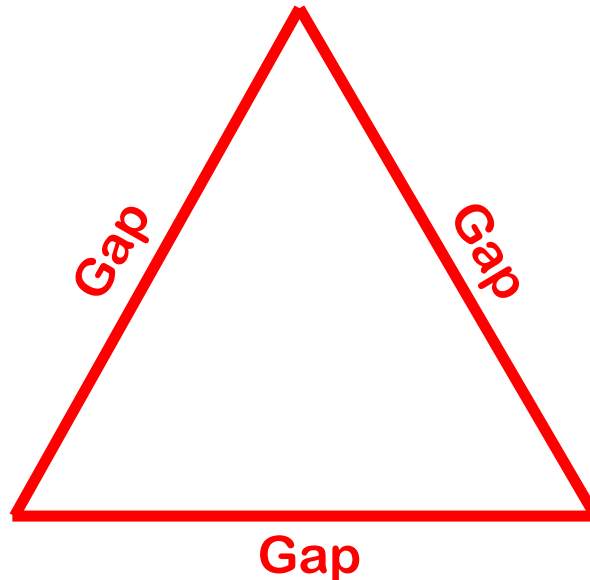
Gaps Between the Views of Quality



Product

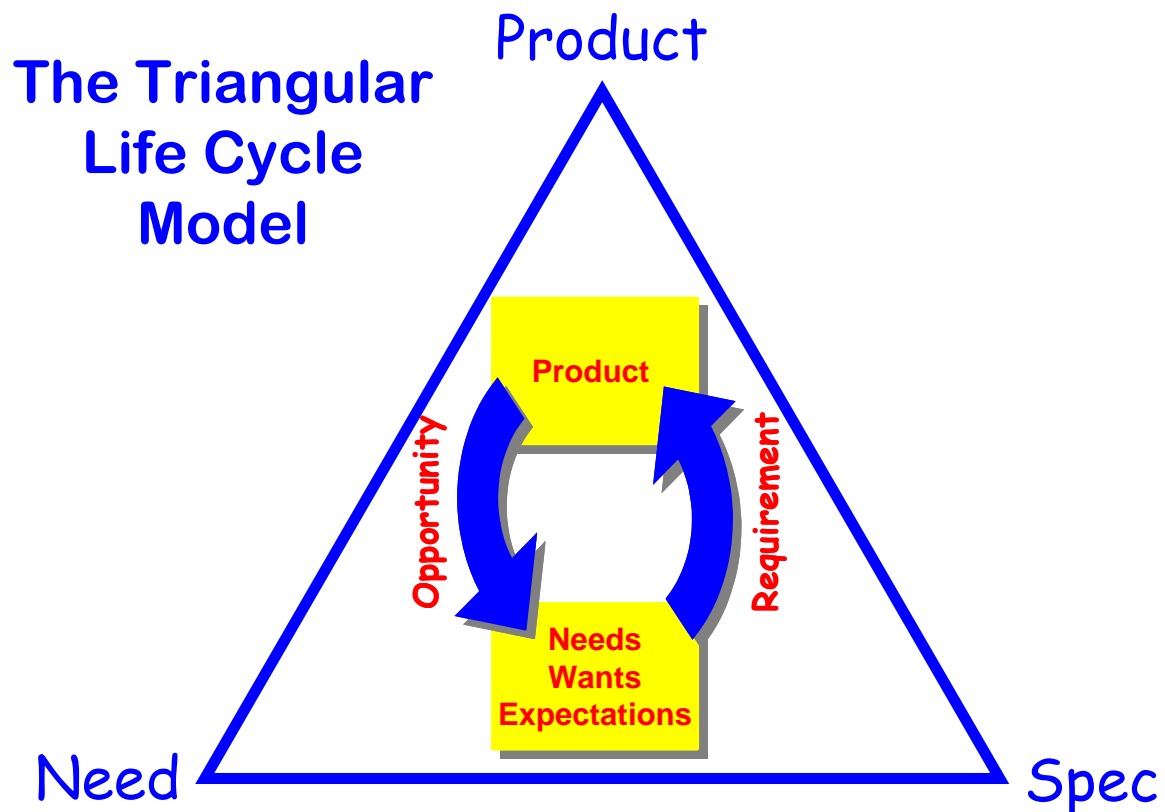
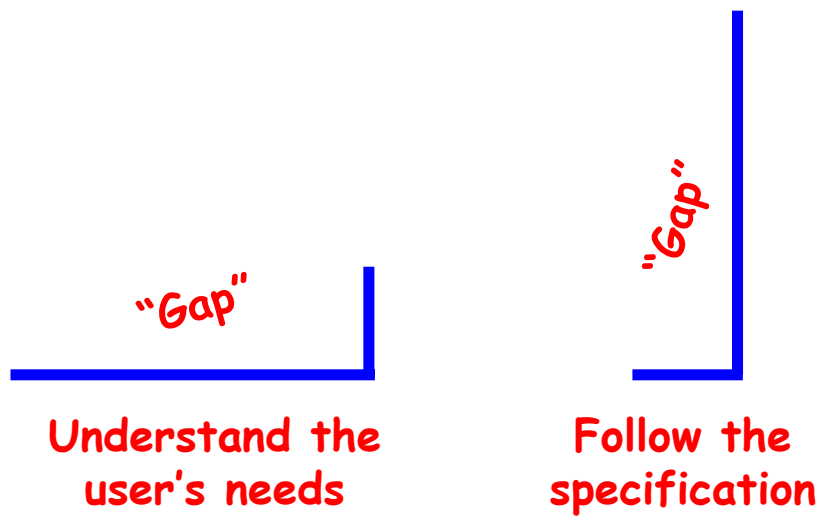


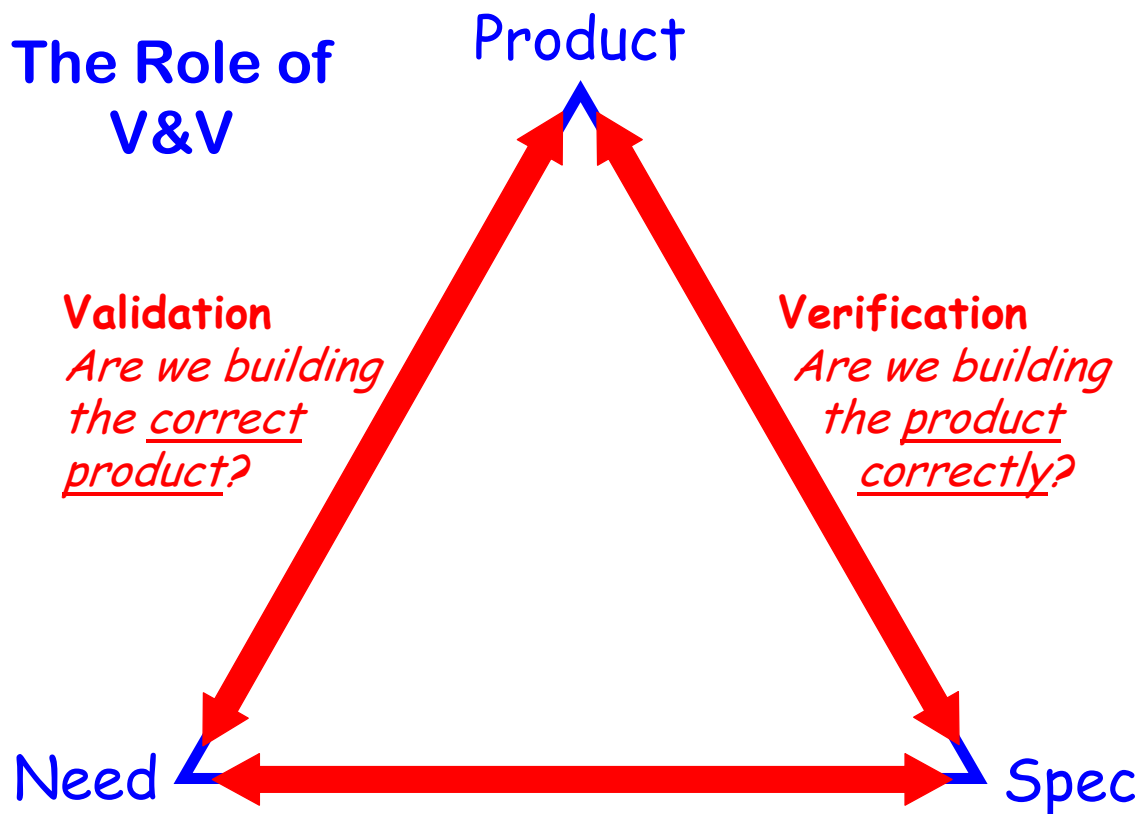
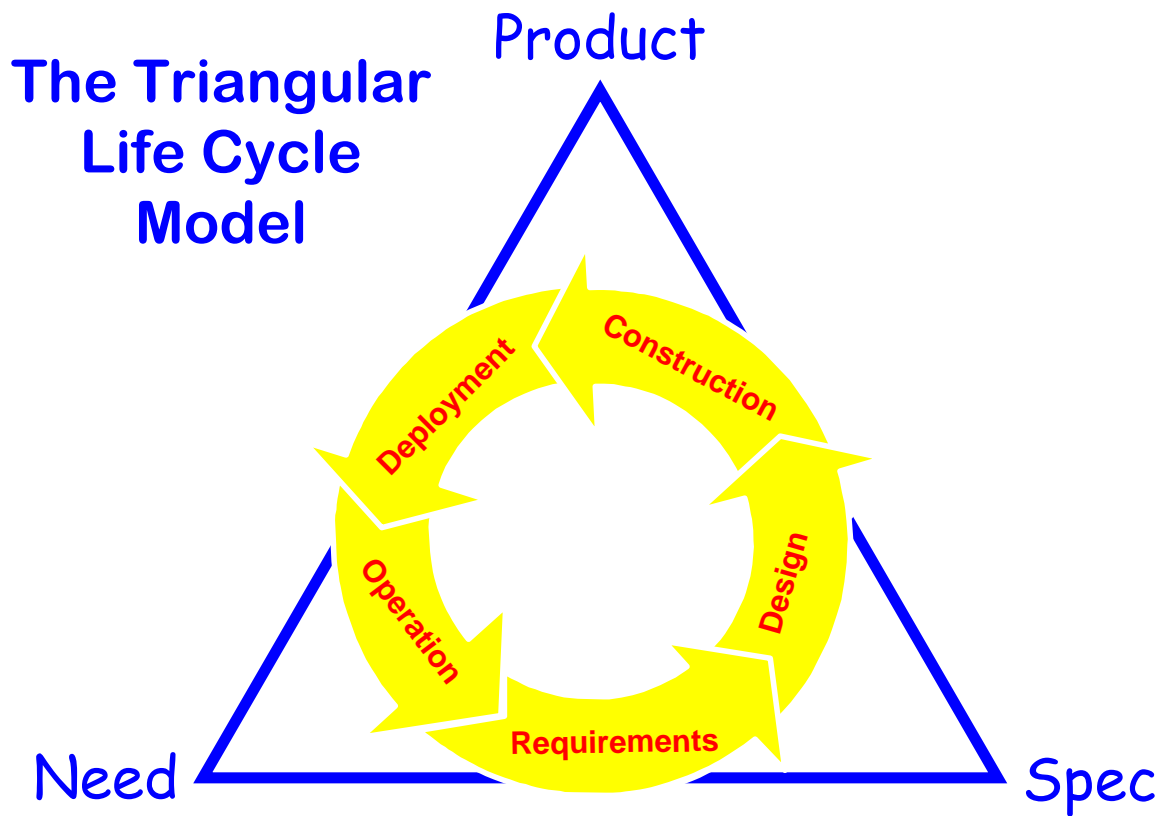
Need

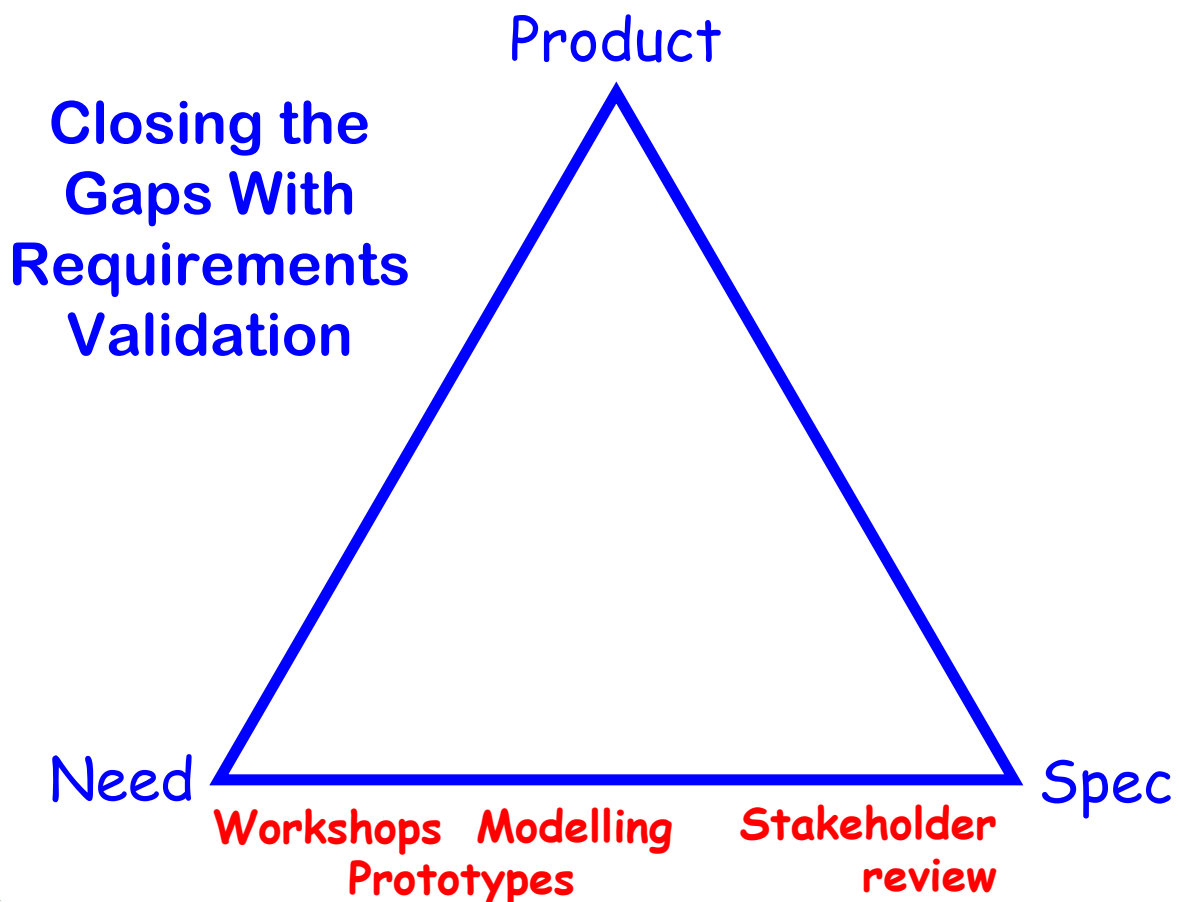
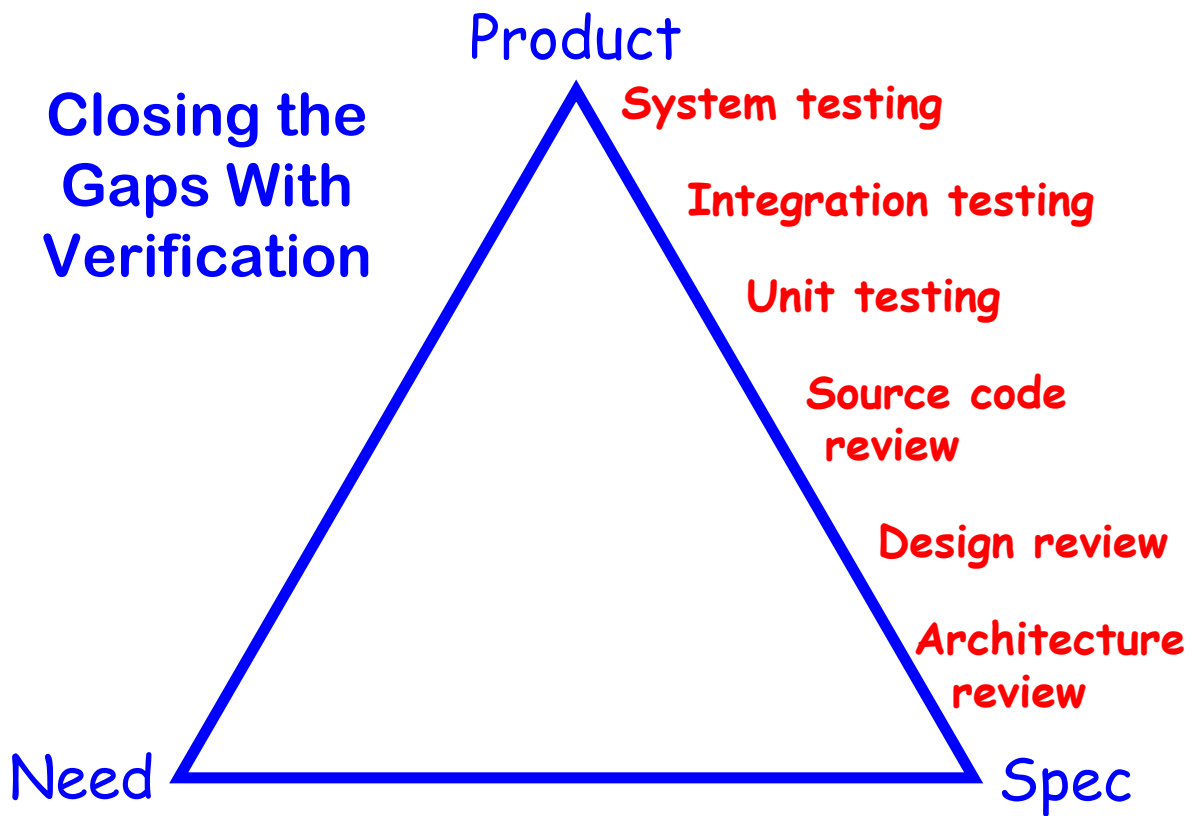


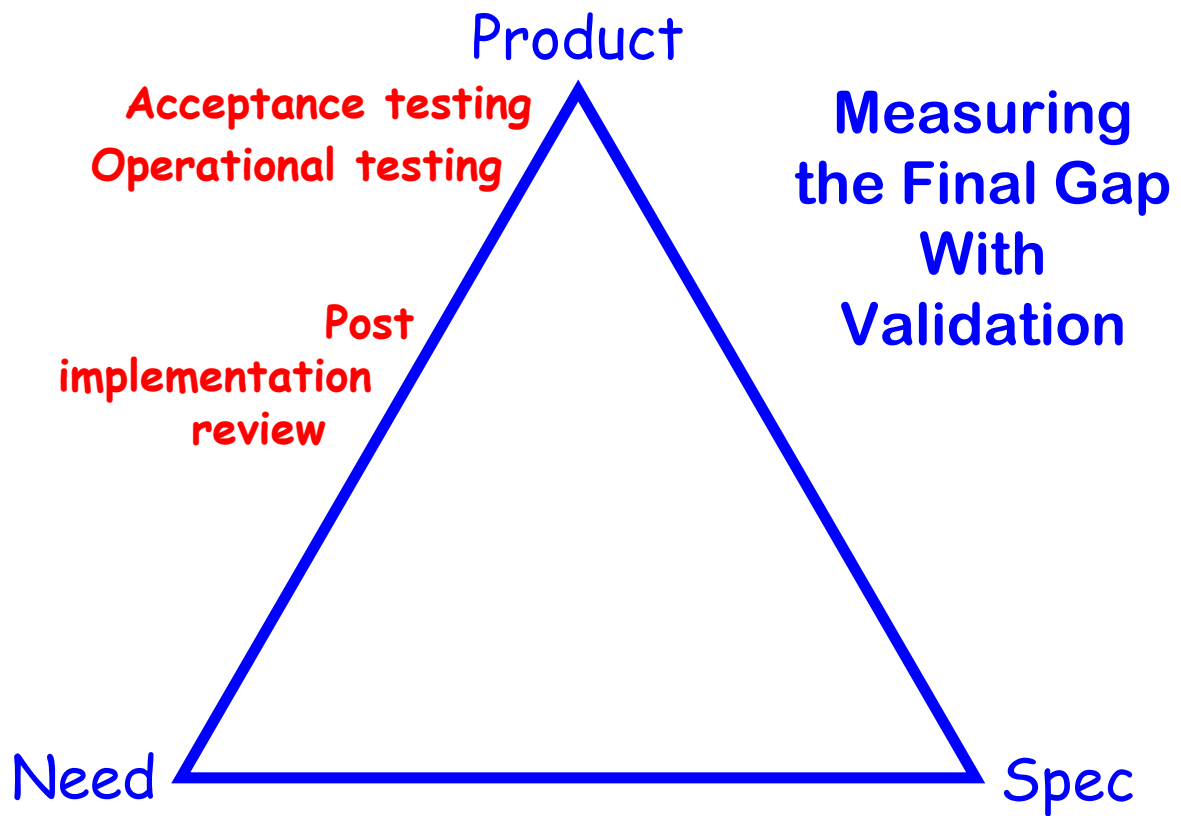
Spec

The Triangular Life Cycle Model

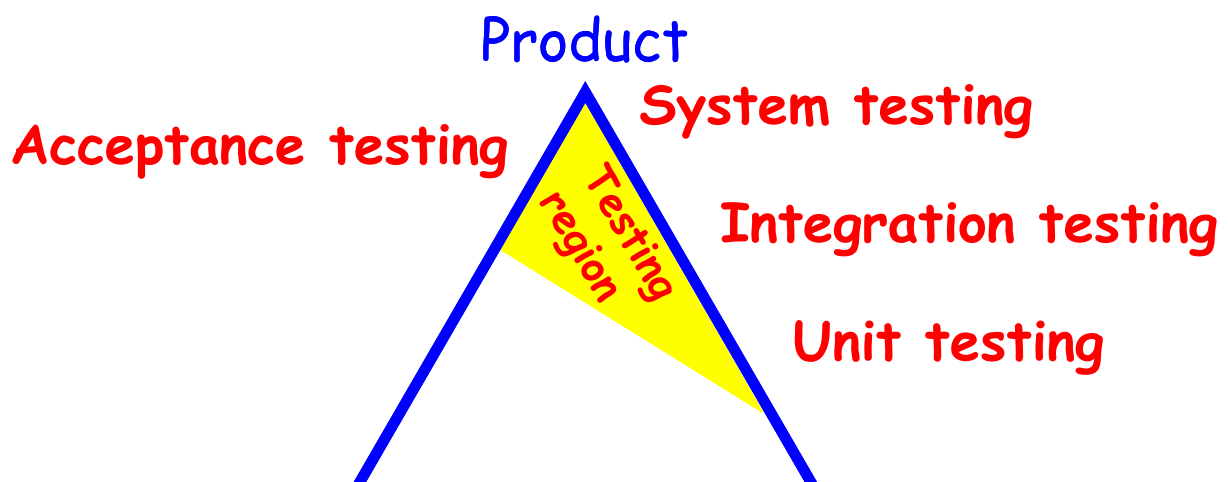




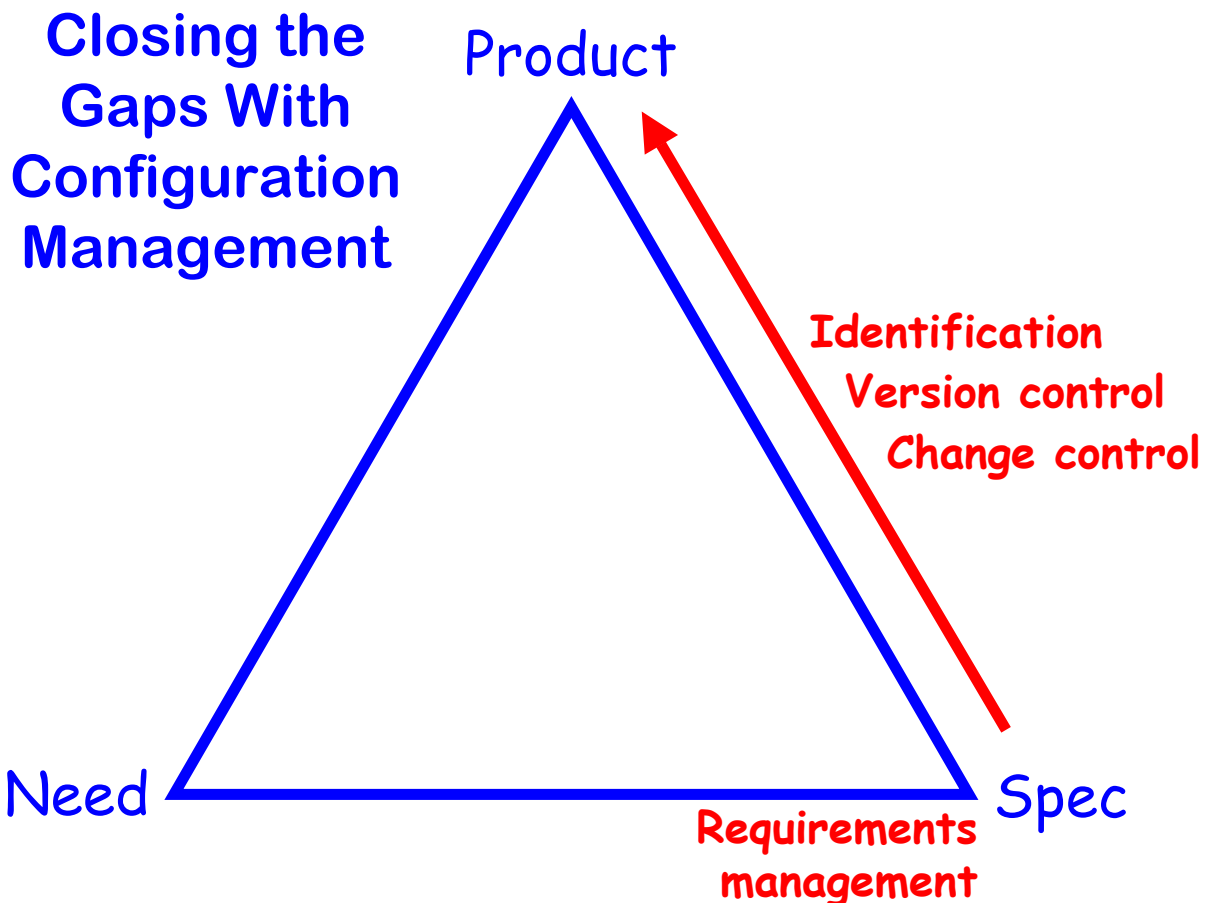
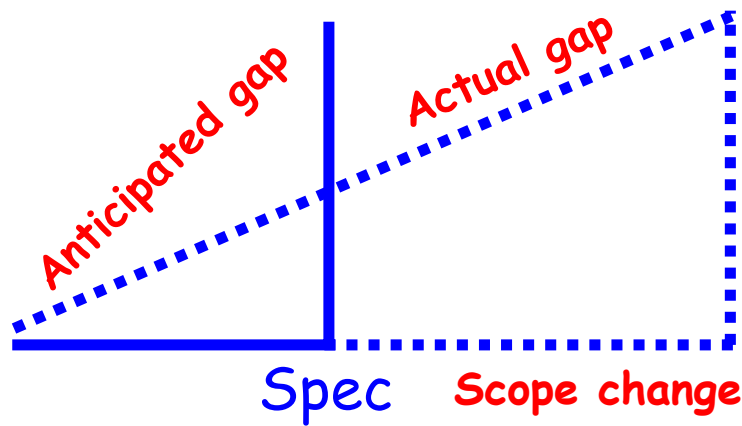




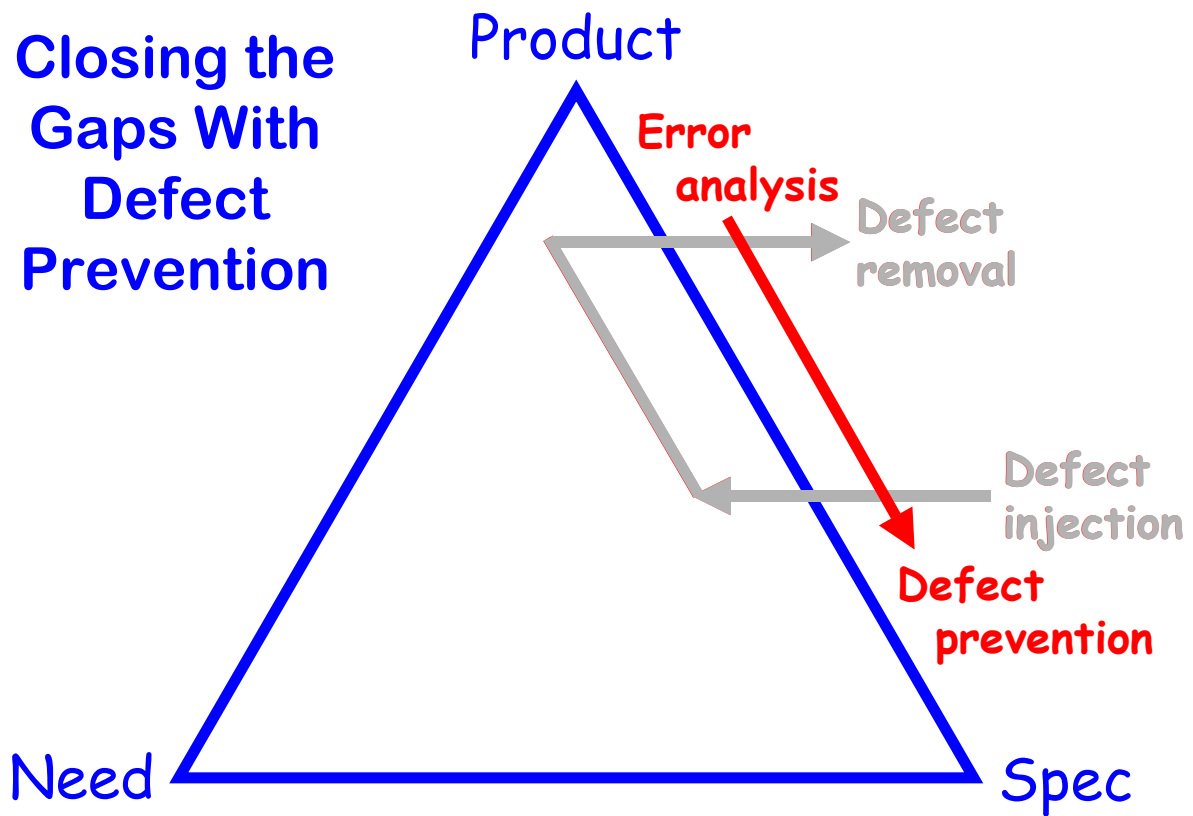
The Testing Region



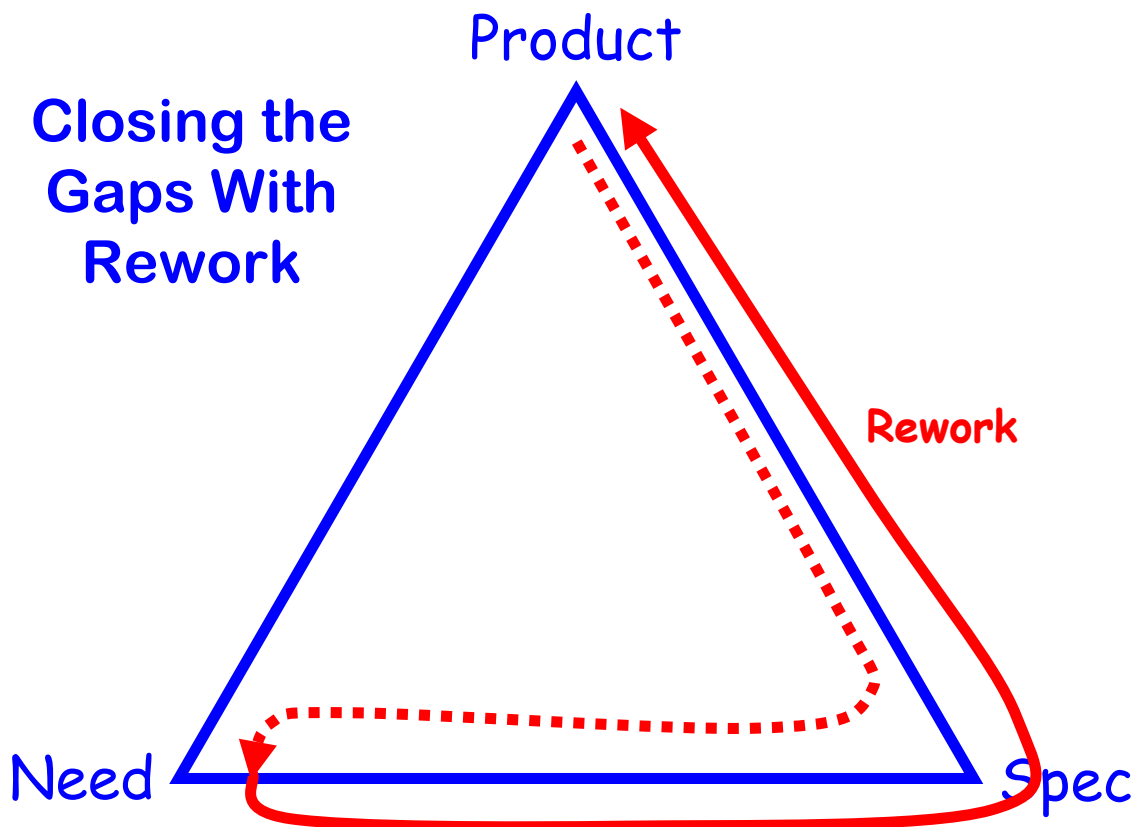
Closing the Gaps With Configuration Management



Closing the Gaps With Defect Prevention

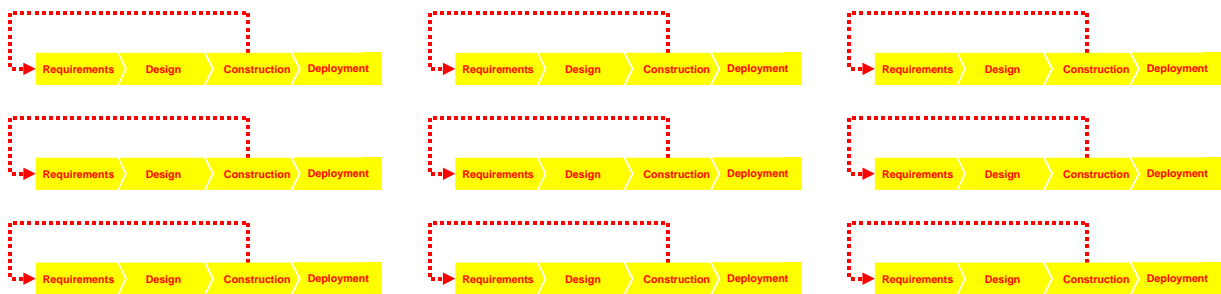
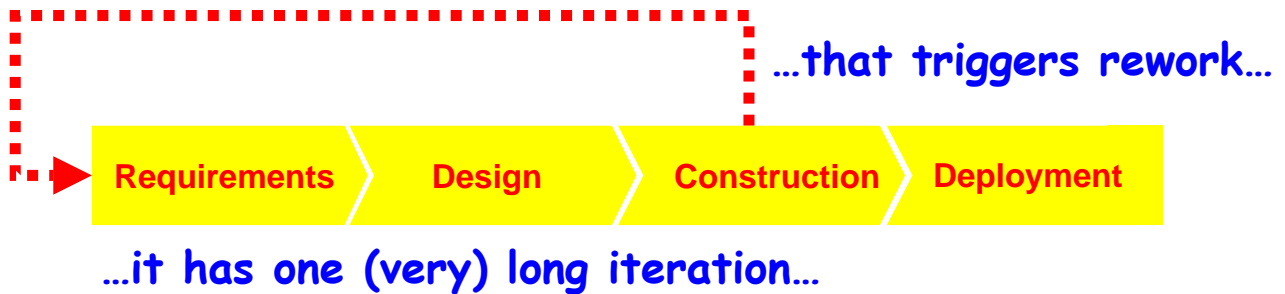


Closing the Gaps With Rework

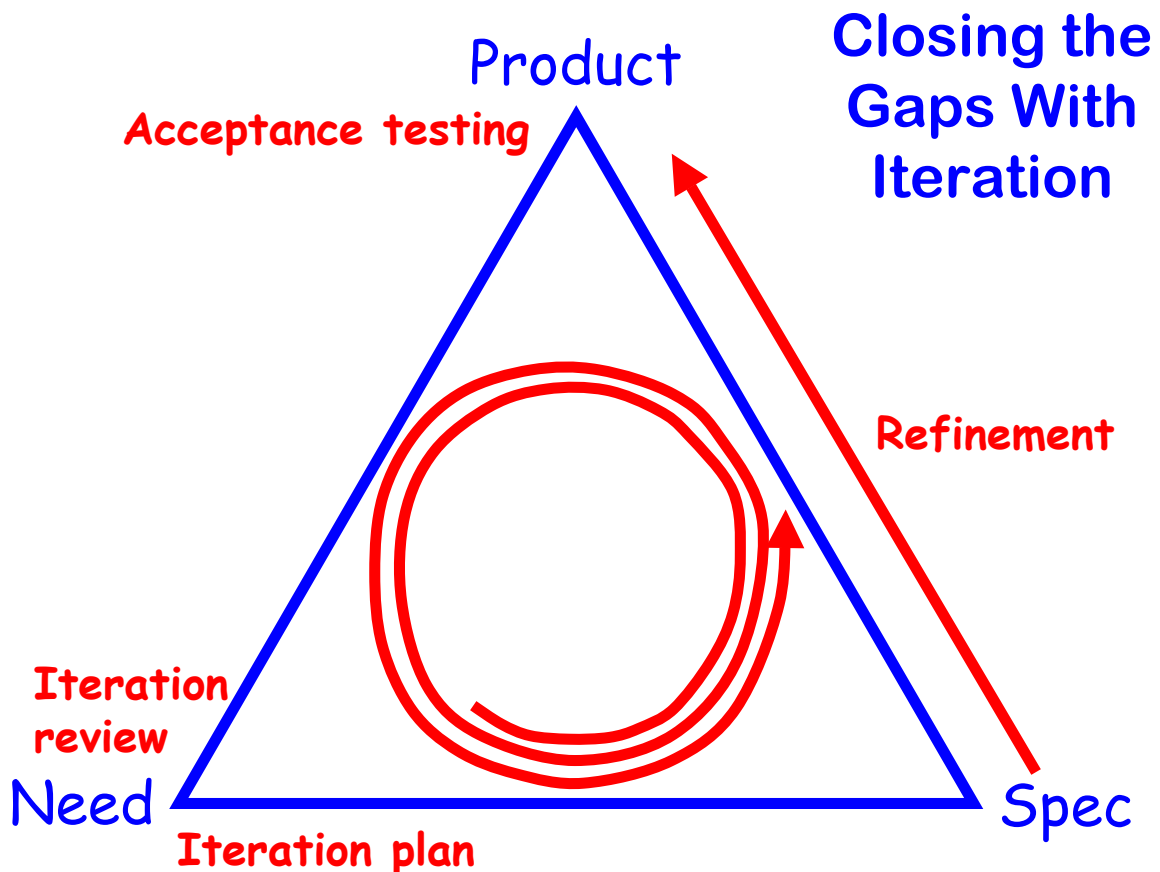


Closing the Gaps With Iteration

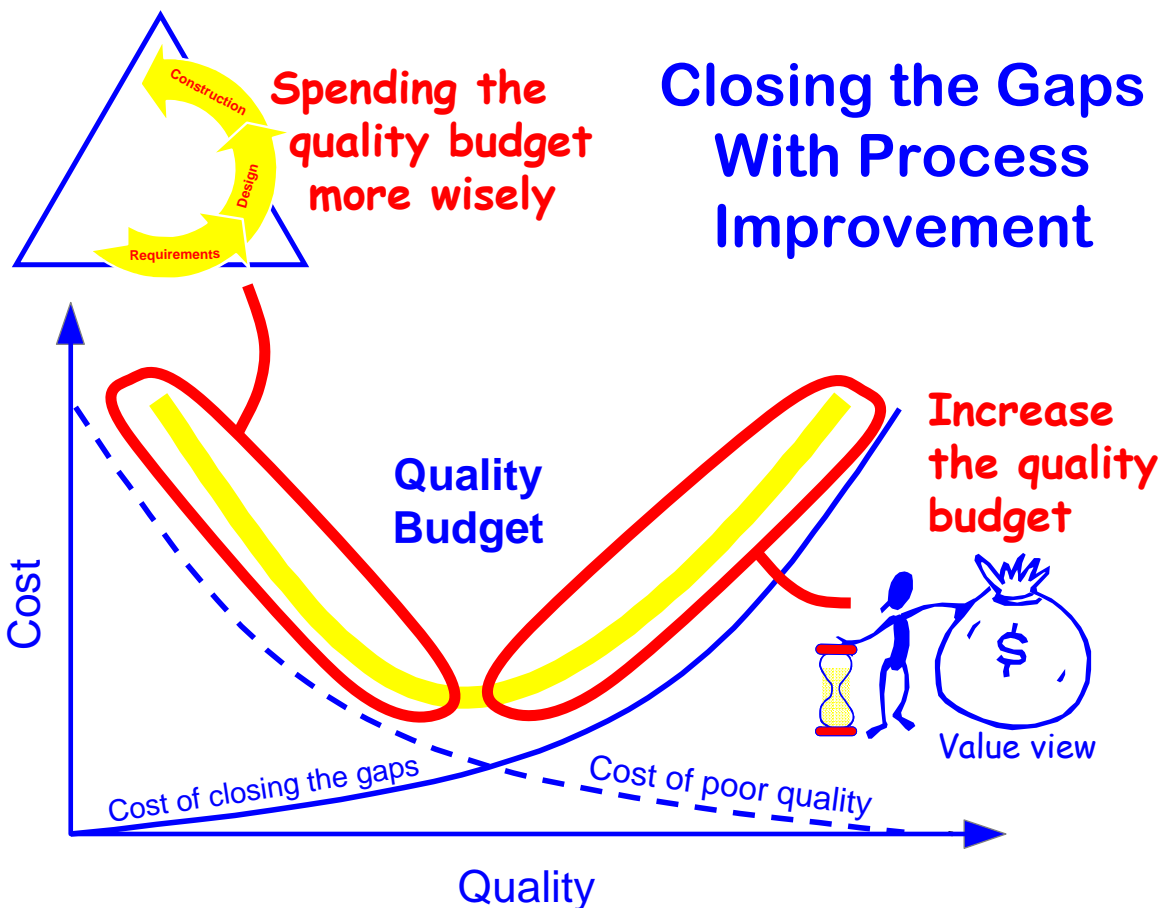
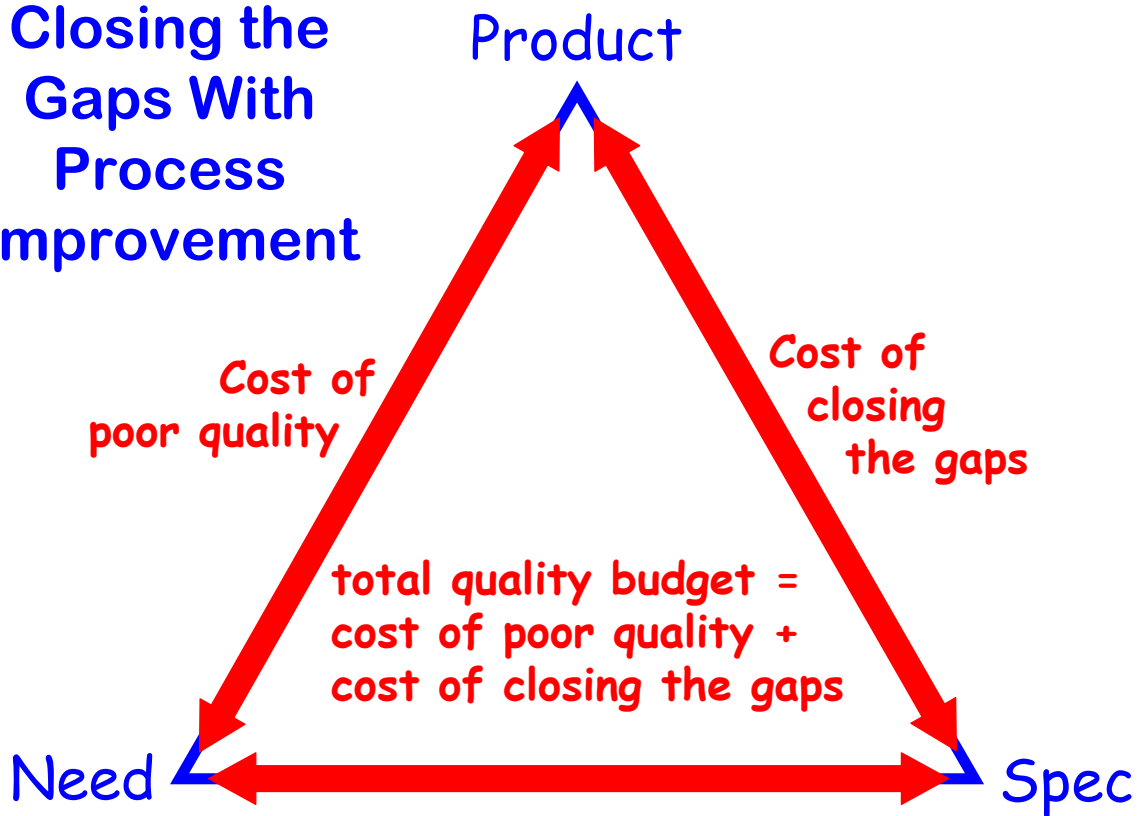
The waterfall life cycle is actually iterative...



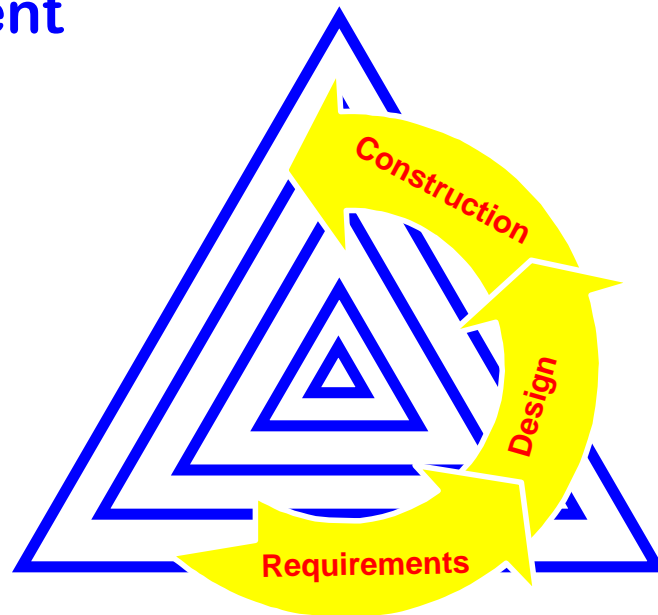
...that leads to lots of short iterations!



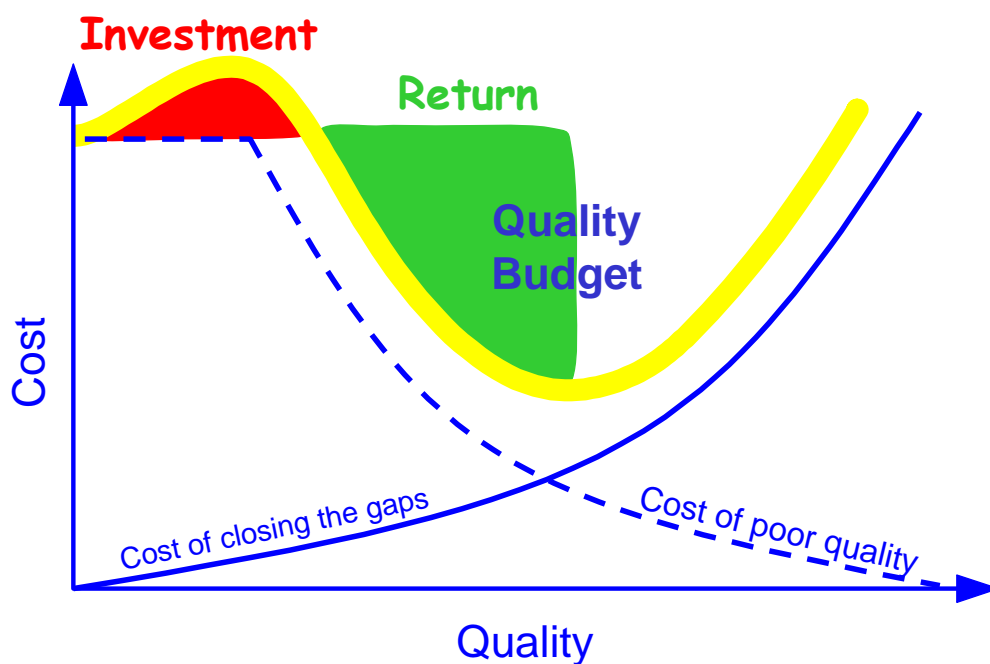
Closing the Gaps With Process Improvement



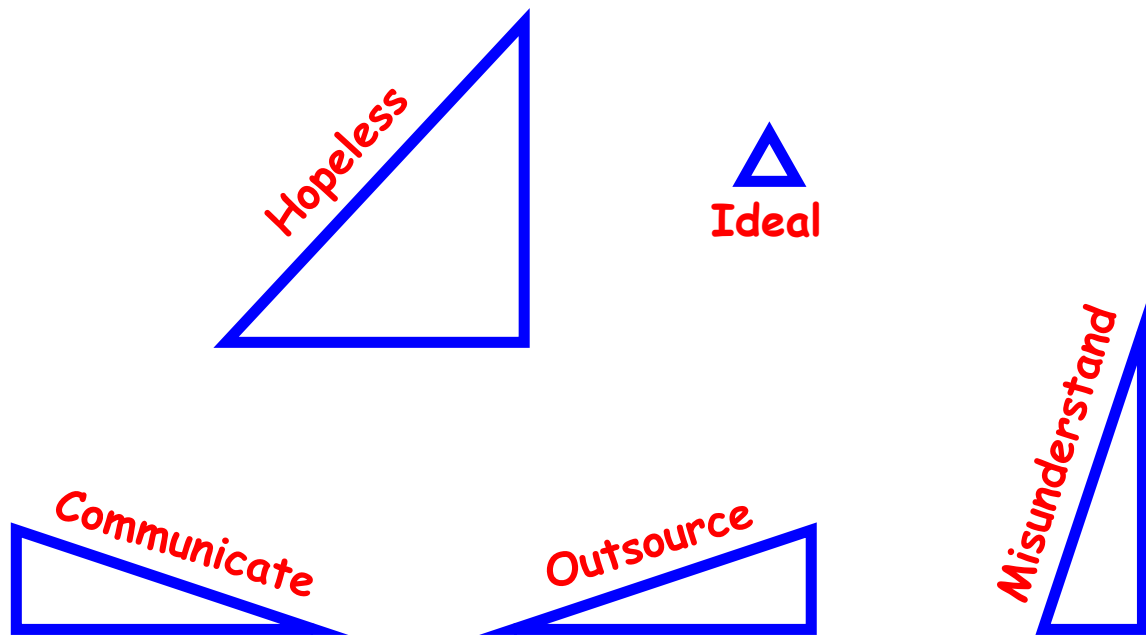
Closing the Gaps With Process Improvement



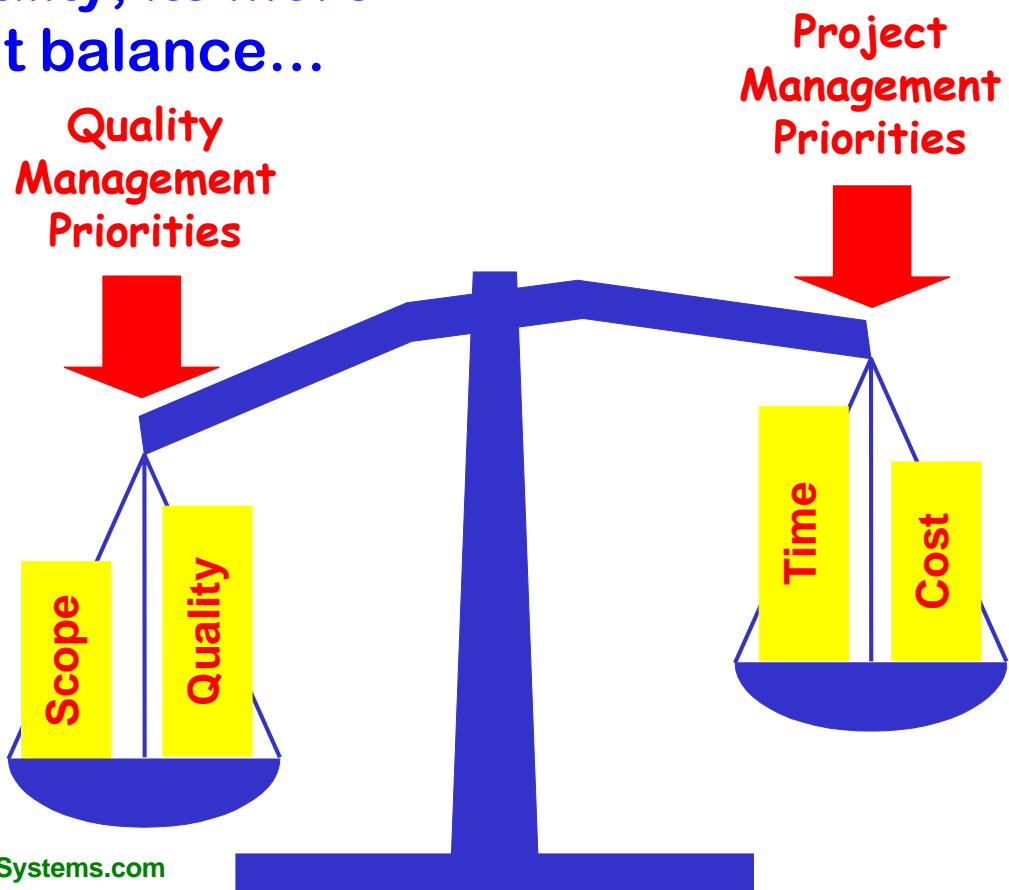
Closing the Gaps With Process Improvement



“Triangular” Maturity Models



In reality, its more about balance...



The Triangular Life Cycle Model

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LonsdaleSystems.com